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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/765,599	01/27/2004	Raymond Elijah Barnett	TI-36778 / DDM03-034	1700
23494 7	2590 02/24/2005		. EXAMINER	
TEXAS INSTRUMENTS INCORPORATED P O BOX 655474, M/S 3999			NGUYEN, LONG T	
DALLAS, TX 75265			ART UNIT	PAPER NUMBER
21.22.02, 11.10.00			2816	

DATE MAILED: 02/24/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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΄.

	Application No.	Applicant(s)				
Office Action Summan	10/765,599	BARNETT ET AL.				
Office Action Summary	Examiner	Art Unit				
	Long Nguyen	2816				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 27 Ja	nuary 2004.					
2a)☐ This action is <b>FINAL</b> . 2b)☒ This	action is non-final.					
3) Since this application is in condition for allowar	ice except for formal matters, pro	secution as to the merits is				
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-15 is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-15</u> is/are rejected.						
· <u> </u>	7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal Pa	te atent Application (PTO-152)				
Paper No(s)/Mail Date <u>1/27/04</u> .	6) Other:	account personnel (F 10-102)				

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-15 are rejected under 35 U.S.C. 102(b) as being anticipated by Comeau et al. (US 2002/0154435 A1).

Note that Figure 3 of the Comeau et al. reference discloses an amplifier apparatus (all elements of Figure 3 except read-head 12) for use with a sensor (read-head 12), wherein the amplifier apparatus comprising: a first amplifying circuit segment (Q1, Q2) and a second amplifying circuit segment (Q3, Q4) each of which including a first transistor device (Q1 or Q4) and a second transistor device (Q2 and Q3) coupled in parallel; and a feedback unit (20, C1, C2, R<sub>RFB1</sub>, R<sub>RFB2</sub>) coupled with the first and second amplifying circuit segments, wherein the feedback unit receiving signals from each of the first (Q1 or Q4) and second (Q2 or Q3) transistors of the first and second amplifying circuit segments, the feedback unit is for providing feedback signals to at least the first and second transistors of the first and second amplifying circuit segments to effect substantially balanced signal handling of signals by the first and second transistors (see paragraphs [0022] and [0023]). Note that the sensor (read-head 12) is a read-head in a data storage device (disk drive), and wherein the first transistor is a MOS transistor and the second transistor is a bipolar transistor (as suggested by the Comeau et al. reference, see lines 3-5 of paragraph [0080]).

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## Conclusion

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3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directly to Examiner Long Nguyen whose telephone number is (571) 272-1753. The Examiner can normally be reached on Monday to Friday from 8:30am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tim Callahan, can be reached at (571) 272-1740. The fax number for this group is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

February 22, 2005

Long Nguyen Primary Examiner

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